

SUBSTITUTE SPECIFICATION
NO NEW MATTER HAS BEEN ADDED

TITLE OF INVENTION

The Pool Skimmer

CROSS REFERENCES TO RELATED APPLICATIONS

Not Applicable

STATEMENT REGARDING FEDERALLY SPONSORED RESEARCH

Not Applicable

REFERENCE TO APPENDIX

Not Applicable

BACKGROUND OF THE INVENTION

A. FIELD OF THE INVENTION

This device relates to the cleaning of the top surface of an in-ground or above ground pool on a continuous basis. The device uses a portable base to secure a pool net in one position in a pool.

B. PRIOR ART

Examples of the prior art in this area consist of devices, which are either secured to the side or lip of a pool by a clasp or bracket or are permanently attached to the deck or concrete of a pool perimeter. The Mongiello, U.S. patent number 5,288,414 ~~patent~~ and McFarland, U.S. patent number 5,173,181 ~~patent~~ are examples of these types of devices. While the above referenced patents have the ability to clean the top surface of the pool they are otherwise fixed in place and are not readily portable.

In certain pools a particular area of the pool may be harder to clean due to an excessive amount of trees or other

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1
2 foliage. The current device seeks to combine the advantages of
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4 continuous skimming or cleaning and portability. The
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6 portability aspect of this device would be greatly appreciated
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8 by the pool owner as he or she seeks to maximize the cleaning of
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10 any trouble spot in the pool.
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12 Additionally this device allows a height adjustment of the
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14 pool net, for maximum cleaning or skimming efficiency.
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BRIEF SUMMARY OF THE INVENTION

One of the difficulties in maintaining a pool is to make sure that any fallen debris including leaves, twigs, and moss is trapped as soon as possible. Otherwise, this material will float to the bottom and create maintenance headaches for the homeowner as it decomposes.

The traditional method of skimming a pool is to pick up the floating debris by using a pole with a net or some other skimming device. This must be done by an individual and therefore is limited in the hours of operation.

The current invention involves a device, which is free standing and can be used at any time of day or night and is independent of any operator or individual. Because it is a freestanding device, which can be moved to any part of the pool depending on a particular need, the pool owner can position the device wherever the greatest need arises to clean the top surface of the pool.

This device is comprised of a freestanding base comprised of four legs connected by tubing or piping with an opening at one end to insert and secure a standard pool net. The net can be inserted partially below the surface of the water to catch any fallen debris, which floats on the pool surface and is directed into the net.

As the water is circulated around the pool by the pool jets, the debris on the surface floats into the net.

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1 The next day the homeowner can then simply empty the net and
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3 reposition the device, if desired.
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5 This device is not permanently attached to the deck or
6
7 concrete pool surface and can be easily moved from location to
8
9 location around the perimeter of the pool surface. Because it
10
11 does not depend on the efforts of an operator this device can be
12
13 used around the clock, every day of the year.
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15 It can be used on both inground and aboveground pools.
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17 The object of the present invention is to make the cleaning
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19 of the top surface of any type of pool effortless and
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21 continuous while maintaining maximum efficiency of the existing
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23 pool filters.
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BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of the device.

Figure 2 is a view from the back of the device.

Figure 2a is a cross sectional view according to line 2A-2A on

Figure 2.

Figure 3 is a view from the front of the device.

Figure 4 is a top view of the device.

Figure 5 is a bottom view of the device.

Figure 6 is a left side view of the device.

Figure 7 is a right side view of the device.

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DETAILED DESCRIPTION OF THE EMBODIMENTS

1
2
3 It is the object of this invention to trap and collect
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5 debris on the top surface of a pool on a continuous basis
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7 without the necessity of an individual operating a net or other
8
9 skimming device. It is designed to be portable and lightweight
10
11 to enable the pool owner to position this device where the
12
13 greatest need is present.

14
15 The principal advantages of continuous skimming of the
16
17 debris from the top surface of the pool include the reduced
18
19 maintenance that may become necessary as a result of the failure
20
21 to clean the surface and to insure that the skimmers, which are
22
23 built into the side of the in ground pool work at maximum
24
25 efficiency. If the skimmers become clogged the pool filter will
26
27 operate at reduced efficiency. This will lead to maintenance
28
29 problems for the pool owner. It is the further object of this
30
31 invention to assist the skimmers operate at maximum efficiency
32
33 by reducing the amount of floating debris.

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35 According to Figure 1 this device consists of two sets of
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37 legs, which are located at the first end of the device. The
38
39 legs are identical in shape and size and two sets of legs, a
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41 first or front set (60) and a second or rear set is
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43 contemplated (61). The vertical and horizontal dimensions of
44
45 the pairs of legs are identical. A "T" fitting (62) connects
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47 the rear set of legs together in the approximate center. A
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49 length of tubing (10) connects the two sets of legs and is
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1 affixed to the "T" at the rear set of legs and a cross fitting
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3 (63). This tubing (10) extends from the center of the rear set
4
5 of legs (61) between a "T" fitting (62) connecting the rear
6
7 legs (61) and a "cross" fitting (63), which connects the rear
8
9 set of legs to the front set of legs (60). Connected to the
10
11 cross member fitting (63) on the front or first set of legs
12
13 (60) is another length of tubing (15) which connects the front
14
15 set of legs to a "T" fitting (30), which is positioned
16
17 vertically, into which the height adjustment tube (32) will be
18
19 inserted. The material, which will be used for construction of
20
21 this device, must be water resistant and non-corrosive due to
22
23 its proximity to water. It is contemplated that polyvinyl
24
25 chloride (PVC) piping or other type of hard plastic will be
26
27 used.

28
29 A vertical "T" fitting (30) at the second end of this
30
31 device is affixed so that the net can be mounted on the first
32
33 end of the height adjustment tube. The height adjustment tube
34
35 (32) fits through the center of vertical "T" fitting (30).
36

37 It is anticipated that the device when assembled will have
38
39 a vertical dimension of five inches off the ground. The
40
41 connection points for the legs will extend radially from the
42
43 centerline of the device approximately five inches. The
44
45 distance between the two sets of legs will be approximately
46
47 eleven inches and the distance between the second end and the
48
49 cross fitting is approximately eleven inches for a
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1 total length of approximately two feet from end to end.

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3 Two holes are drilled in the approximate center of the
4 vertical "T" fitting (30); these holes are positioned 180
5 degrees apart or diametrically opposed to each other. The
6 purpose of the holes in the vertical "T" is to secure the pool
7 skimmer or net (50) to the device.
8
9

10
11 Another set of holes, which is placed in the height
12 adjustment tube (32) allows the pool skimmer or net (50) to be
13 adjusted in a vertical fashion. These vertical series of holes
14 (40) are 180 degrees apart or diametrically opposed to each
15 other and are drilled through the height adjustment tube (32).
16 The holes in the height adjustment tube are approximately one
17 inch apart and there are approximately five or six sets of holes
18 (40) for the vertical adjustment of the pool skimmer. The
19 diameter of the pool skimmer or net tubing is slightly less than
20 the diameter of the height adjustment tube (32).
21
22

23 In addition, two holes (33), 180 degrees apart or
24 diametrically opposed to each other, are drilled through the
25 height adjustment tube (32) three-quarters of an inch from the
26 bottom and attach the net (50) to the height adjustment tube
27 (32) at the bottom of the tube proximate to the water surface.
28 These holes (33) will receive a plastic spring loaded locking
29 device that comes as part of the pool skimmer or net (50) to
30 attach the pool skimmer or net to the height adjustment tube
31 (32).
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1
2 A pin (31) or other securing device is inserted through the
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4 holes in the vertical "T" or vertical connection member (30) and
5
6 through the holes in the height adjustment tube (32). The type
7
8 of securing device may include a cotter pin or bolt and extends
9
10 through both holes to secure the pin (31) in place.
11

12 According to Figure 2, the adjusting tube (32) can be moved
13
14 up or down to compensate for variations in the water level in
15
16 the pool. The pool skimmer (50) is a standard pool net which
17
18 can be purchased at any pool supply store.
19

20 The construction of the device is comprised of hollow
21
22 tubing or piping, which should be lightweight and non ferrous.
23
24 Within the hollow legs at the rear of the base, weight 92 is
25
26 added for anti-tipping stability. Ideally, ~~the~~ weight 92 is
27
28 added in the rear legs (61) which are ~~distal~~ further from the
29
30 pool.
31

32 The device can be moved from location to location around
33
34 the perimeter of the pool to collect debris form the top surface
35
36 of the pool at will and with ease.
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38 The additional Figures, which have been included in this
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40 application show the invention from the various angles for a
41
42 more complete representation of the device.
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